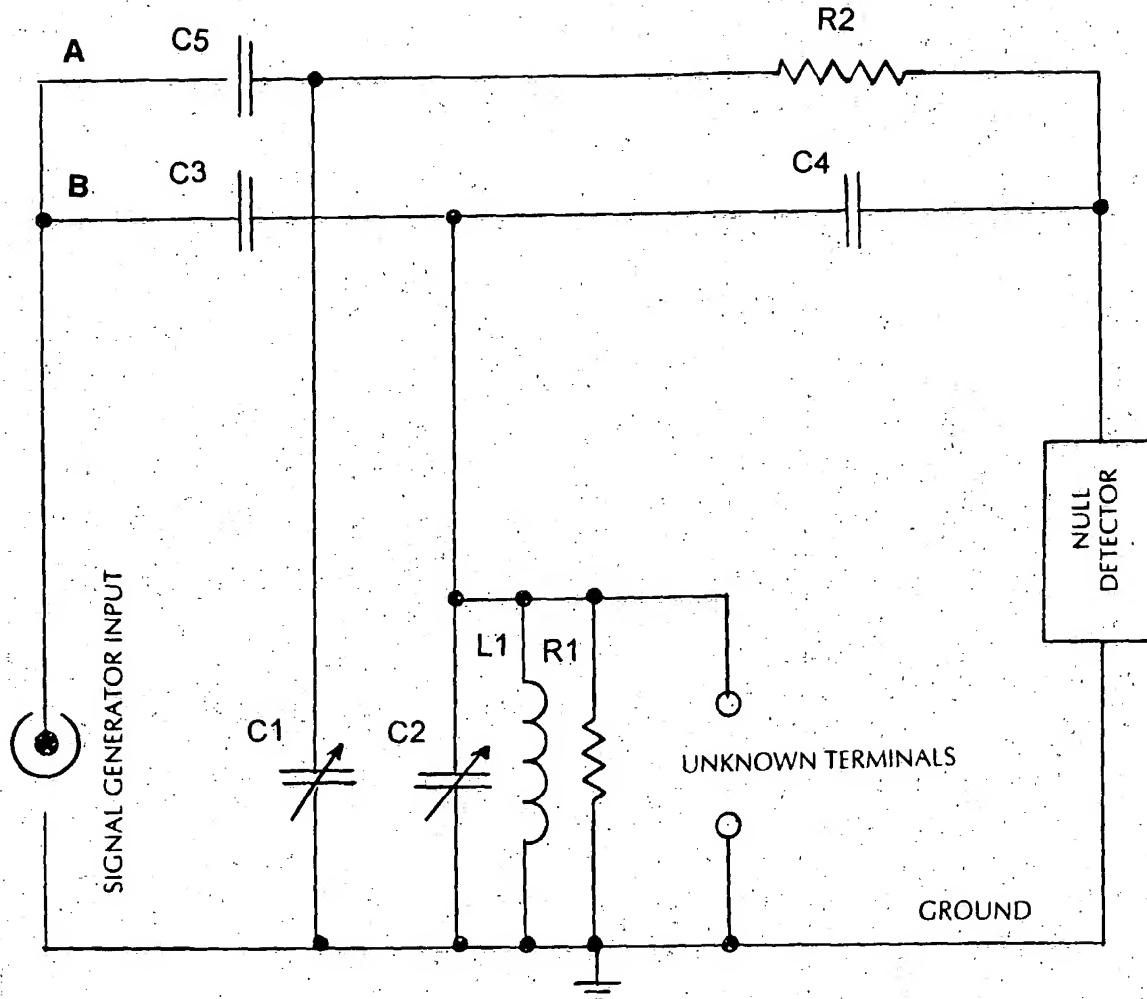


Sept. 2002

FIGURE 1

BLOCK DIAGRAM CENTRAL UNIT DIGITAL RF BRIDGE

Capacitance meter and null detector are connected to a computer by data lines with sensing devices



DIGITAL RF BRIDGE

FIG. 2

- C1 VARIABLE VACUUM CAPACITOR 20 - 3000 pF
- C2 VARIABLE VACUUM CAPACITOR 20 - 3000 pF
- C3 100 pF AIR DIELECTRIC (screw driver adjustment)
- C4 100 pF AIR DIELECTRIC (screw driver adjustment)
- C5 100 pF AIR DIELECTRIC (screw driver adjustment)
- R1 540 ohms (precision resistor)
- R2 1590 ohms (precision resistor)
- L1 31.8 microhenries (toroidal inductor)

BLOCK DIAGRAM OF DIGITAL RF BRIDGE
SET UP FOR MEASUREMENTS

6/03

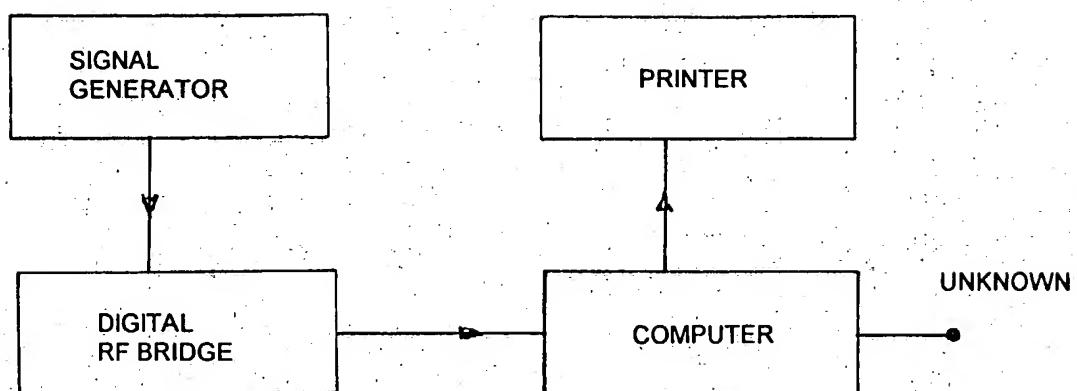
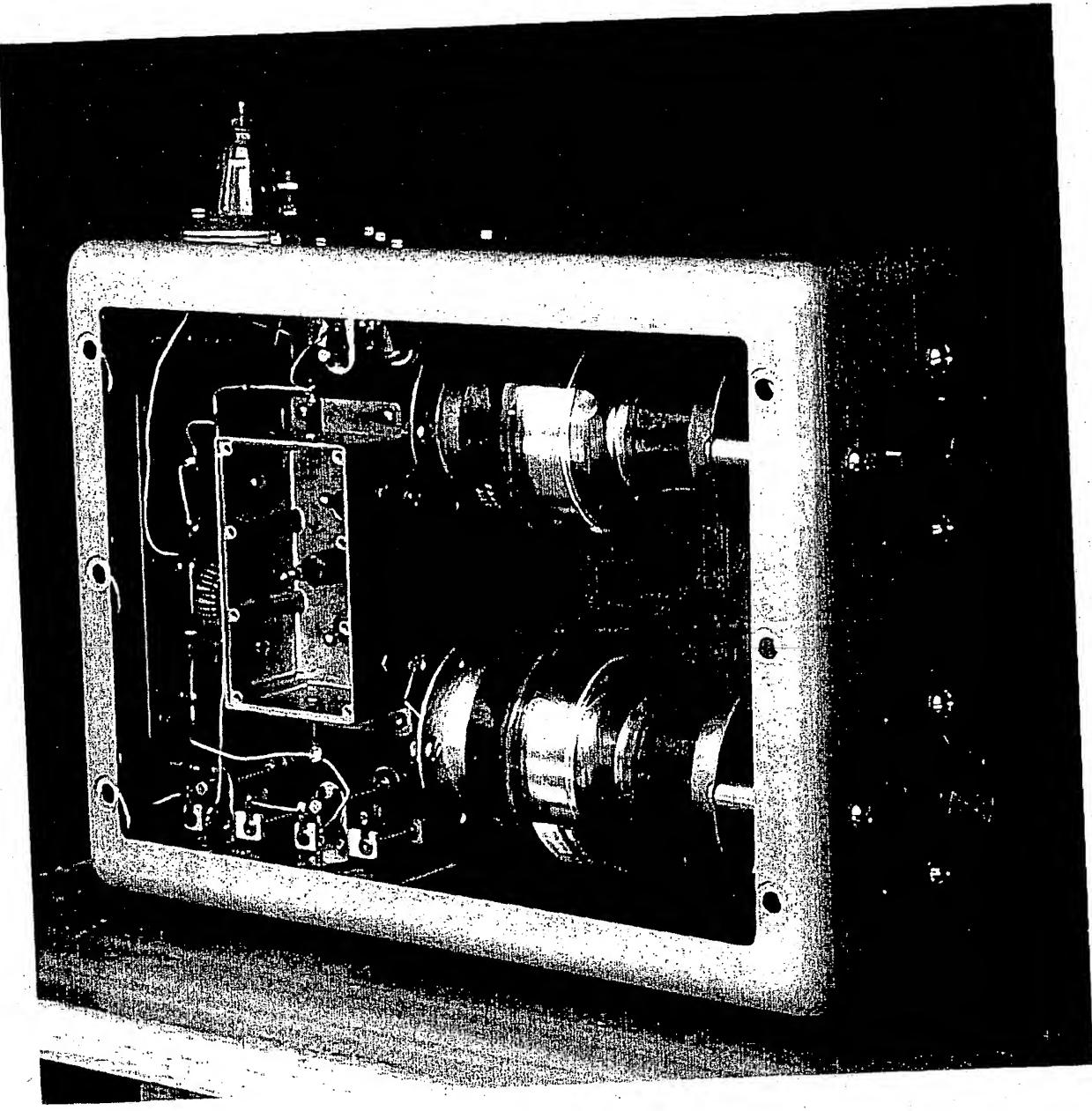


FIGURE 3

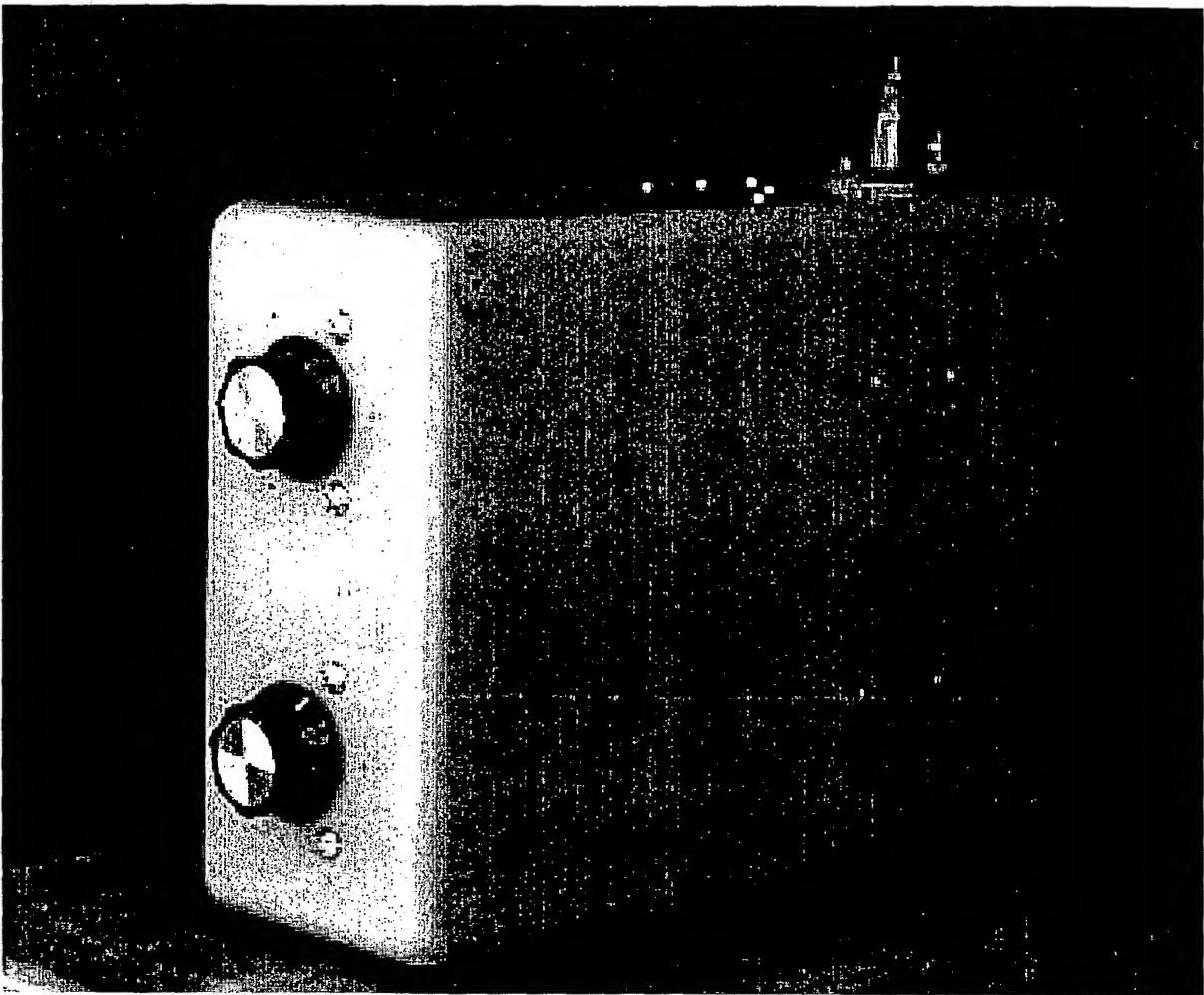


DIGITAL RF BRIDGE

FIG. 4

Die cast aluminum box will normally house components for measuring capacity of C1 and C2

The vacuum capacitors are C1 and C2



DIGITAL RF BRIDGE

FIG. 5

BNC connectors for signal generator and null detector are on the back panel.